



# **Range Commanders Council (RCC)**

---

## **Overview of RCC Organization and Telemetry Group**

**Telemetry Group Chair:  
Ken Schoeck**



# Content

---

- ◆ **What is the RCC?**
- ◆ **RCC Member Ranges**
- ◆ **RCC Groups**
- ◆ **Telemetry Group**
  - Published Documents**
  - Committees**
  - Engineering Support Task**
- ◆ **Points of Contact**



# What is the RCC?

---

- ◆ **IRIG founded in 1951 and name changed to RCC in 1963**
- ◆ **Mission**
  - **Common needs are identified & common solutions are sought**
  - **Technical standards are established & disseminated**
  - **Joint procurement opportunities are explored**
  - **Technical & equipment exchanges are facilitated**
  - **Advanced concepts & technical innovations are assessed & potential applications are identified**



# What is the RCC?

---

## ◆ Scope

- **Resolve common problems**
- **Discuss common range matters in an organized forum**
- **Exchange information thereby minimizing duplication**
- **Conduct joint investigations pertaining to research, design, development, procurement, and testing**
- **Coordinate major or special procurement actions**
- **Develop operational test procedures and standards for present and future range use**
- **Encourage interchange of excess technical systems and equipment**



# **RCC Member Ranges (Army)**

---

- **White Sands Missile Range**
- **Reagan Test Site (formerly KMR)**
- **Yuma Proving Ground**
- **Dugway Proving Ground**
- **Aberdeen Test Center**
- **National Training Center**



# **RCC Member Ranges (Navy)**

---

- **Atlanta Fleet Weapons Training Center**
- **Naval Air Warfare Center Weapons Division**
- **Naval Air Warfare Center Aircraft Division**
- **Naval Undersea Warfare Center Division**
- **Pacific Missile Range Facility**
- **Naval Strike & Air Warfare Center**



# **RCC Member Ranges (Air Force)**

- **Air Warfare Center**
- **Air Armament Center**
- **Air Force Flight Test Center**
- **30th Space Wing**
- **45th Space Wing**
- **Arnold Engineering Development Center**
- **Goldwater Range**
- **Utah Test and Training Center**



# **RCC Member Ranges**

**(Dept of Energy)**

- **Nevada Test Site**





# RCC Groups

---

- **Data Reduction and Computer Group**
- **Electronic Trajectory Measurement Group**
- **Frequency Management Group**
- **Optical Systems Group**
- **Range Safety Group**
- **Telecommunications and Timing Group**
- **Telemetry Group**
- **Underwater Systems Group**



# RCC Groups

---

- **Meteorology Group**
- **Range Environmental Group**
- **Signature Measurement Standards Group**
- **Modeling and Simulation Group**
- **Range Airspace Group**
- **Sustainability Working Group**
- **Range Operations Group**



# Telemetry Group

---

- ◆ **Composed of representatives from member ranges and associates (Aerospace, Redstone Arsenal, NNAS, NSWC, NASA Goddard, NASA Dryden and AFRL)**
- ◆ **Member Range Membership: Appointed by the RCC/EC Range member. Must be government employees or support contractors.**
- ◆ **Associate Membership: U. S. government agencies or government contractors. Applicants must send a letter to group chair or Secretariat stating their reasons for applying and attend minimum of two group meetings.**



# Telemetry Group

---

- ◆ **For-Profit Contractors (Vendors):** Invited by group or committee chair to present technical information at general meeting or participate in committee meetings.
  
- ◆ **Published Documents**
  - **IRIG Standard 106, Telemetry Standards, (two parts)**
  - **RCC Document 118, Test Methods for Telemetry Systems and Subsystems, (four volumes)**
  - **RCC Document 119, Telemetry Applications Handbook**
  - **IRIG Standard 107, Digital Data Acquisition and On-Board Recording Standard**
  - **RCC Document 120, Telemetry Systems Radio Frequency (RF) Handbook**
  - **White Paper - Review of CCSDS Packetized Telemetry Recommendations**
  - **16th - 20th Transducer Workshop**



# Committees

---

- ◆ **Vehicular Instrumentation/Transducer, Ray Faulstich, NAWCAD**
- ◆ **RF Systems, Ron Pozmantier, AFFTC**
- ◆ **Recorder/Reproducer, Joe Lloyd, NAWCAD**
- ◆ **Data Multiplex, Ted Takas, NAWCAD**
- ◆ **Telemetry Networks, Tim Chalfant, AFFTC**



# **TG Engineering Support Task**

---

- ◆ **The Naval Air Warfare Center Weapons Division, Pt. Mugu, CA is tasked to provide investigative, engineering, and administrative support and test facilities to assist the TG.**
- ◆ **Funded by the member ranges**
- ◆ **Gene Law, NAWCWD PM**



# Points of Contact

---

- ◆ **RCC and Telemetry Group Information (charters, published documents, draft documents, etc.): JIST3 at [jcs.mil/](http://jcs.mil/)**
- ◆ **Telemetry Group:**
  - Chair, Ken Schoeck,**  
**[ken.schoeck@vandenberg.af.mil](mailto:ken.schoeck@vandenberg.af.mil), 805-605-7263**
  - Vice-chair, Dan Skelly,**  
**[skelleyds@navair.navy.mil](mailto:skelleyds@navair.navy.mil), 301-342-1551**
  - Vice-chair (elect), Tim Chalfant,**  
**[tim.chalfant@edwards.af.mil](mailto:tim.chalfant@edwards.af.mil), 661-275-4414**